

# Ali Kaveh

## List of Publications by Year in descending order

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559  
papers

16,495  
citations

28190

55  
h-index

30010

103  
g-index

598  
all docs

598  
docs citations

598  
times ranked

4836  
citing authors

#	ARTICLE	IF	CITATIONS
1	An open-source framework for the FE modeling and optimal design of fiber-steered variable-stiffness composite cylinders using water strider algorithm. <i>Mechanics Based Design of Structures and Machines</i> , 2023, 51, 138-158.	3.4	10
2	Discrete Structural Optimization with Set-Theoretical Jaya Algorithm. <i>Iranian Journal of Science and Technology - Transactions of Civil Engineering</i> , 2023, 47, 79-103.	1.0	2
3	Optimum Design of Castellated Beams Using Four Recently Developed Meta-heuristic Algorithms. <i>Iranian Journal of Science and Technology - Transactions of Civil Engineering</i> , 2023, 47, 713-725.	1.0	12
4	Stochastic paint optimizer: theory and application in civil engineering. <i>Engineering With Computers</i> , 2022, 38, 1921-1952.	3.5	53
5	Topology optimization of repetitive near-regular shell structures using preconditioned conjugate gradients method. <i>Mechanics Based Design of Structures and Machines</i> , 2022, 50, 1434-1455.	3.4	6
6	Domain decomposition of finite element models utilizing eight meta-heuristic algorithms: A comparative study. <i>Mechanics Based Design of Structures and Machines</i> , 2022, 50, 2616-2634.	3.4	6
7	Colliding bodies optimization with Morlet wavelet mutation and quadratic interpolation for global optimization problems. <i>Engineering With Computers</i> , 2022, 38, 2743-2767.	3.5	11
8	An enhanced shuffled Shepherd Optimization Algorithm for optimal design of large-scale space structures. <i>Engineering With Computers</i> , 2022, 38, 1505-1526.	3.5	7
9	A Multistage Damage Detection Approach Using Graph Theory and Water Strider Algorithm. <i>Iranian Journal of Science and Technology - Transactions of Civil Engineering</i> , 2022, 46, 33-54.	1.0	9
10	Plasma Generation Optimization for Optimal Design of Reinforced Concrete Cantilever Retaining Wall Structures. <i>Iranian Journal of Science and Technology - Transactions of Civil Engineering</i> , 2022, 46, 1177-1200.	1.0	4
11	An efficient hybrid approach based on Harris Hawks optimization and imperialist competitive algorithm for structural optimization. <i>Engineering With Computers</i> , 2022, 38, 1555-1583.	3.5	32
12	Guided Water Strider Algorithm for Structural Damage Detection Using Incomplete Modal Data. <i>Iranian Journal of Science and Technology - Transactions of Civil Engineering</i> , 2022, 46, 771-788.	1.0	17
13	Sustainable design of reinforced concrete frames with non-prismatic beams. <i>Engineering With Computers</i> , 2022, 38, 69-86.	3.5	10
14	An efficient derivative-free optimization algorithm inspired by avian life-saving manoeuvres. <i>Journal of Computational Science</i> , 2022, 57, 101483.	1.5	20
15	Improved arithmetic optimization algorithm and its application to discrete structural optimization. <i>Structures</i> , 2022, 35, 748-764.	1.7	49
16	Optimal Seismic Design of Asymmetrical-plan Steel Buildings with Composite Castellated Floor Systems. <i>Iranian Journal of Science and Technology - Transactions of Civil Engineering</i> , 2022, 46, 1969-1995.	1.0	2
17	Analysis of Tensegrity Rotationally Repetitive Space Structures Using the Substructuring Method. <i>Practice Periodical on Structural Design and Construction</i> , 2022, 27, .	0.7	1
18	Improved slime mould algorithm with elitist strategy and its application to structural optimization with natural frequency constraints. <i>Computers and Structures</i> , 2022, 264, 106760.	2.4	21

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19	Optimal sensor placement in large-scale dome trusses via Q-learning-based water strider algorithm. <i>Structural Control and Health Monitoring</i> , 2022, 29, .	1.9	12
20	A new framework for reliability-based design optimization using metaheuristic algorithms. <i>Structures</i> , 2022, 38, 1210-1225.	1.7	17
21	Comparison of Four Chaotic Meta-Heuristic Algorithms for Optimal Design of Large-Scale Truss Structures. <i>Iranian Journal of Science and Technology - Transactions of Civil Engineering</i> , 2022, 46, 4067-4091.	1.0	14
22	Multi-objective Billiards-Inspired Optimization Algorithm for Construction Management Problems. <i>Iranian Journal of Science and Technology - Transactions of Civil Engineering</i> , 2021, 45, 2177-2200.	1.0	7
23	Efficiency of Plasma Generation Optimization for Structural Damage Identification of Skeletal Structures Based on a Hybrid Cost Function. <i>Iranian Journal of Science and Technology - Transactions of Civil Engineering</i> , 2021, 45, 2069-2090.	1.0	10
24	Plasma generation optimization: a new physically-based metaheuristic algorithm for solving constrained optimization problems. <i>Engineering Computations</i> , 2021, 38, 1554-1606.	0.7	36
25	Optimal design of large-scale frames with an advanced charged system search algorithm using box-shaped sections. <i>Engineering With Computers</i> , 2021, 37, 2521-2541.	3.5	33
26	Efficient Graph-Theoretical Force Method: Wedge-Shaped Finite Element. <i>Iranian Journal of Science and Technology - Transactions of Civil Engineering</i> , 2021, 45, 1121-1138.	1.0	0
27	Shuffled Shepherd Optimization Method Simplified for Reducing the Parameter Dependency. <i>Iranian Journal of Science and Technology - Transactions of Civil Engineering</i> , 2021, 45, 1397-1411.	1.0	11
28	Size, Layout, and Topology Optimization of Skeletal Structures Using Plasma Generation Optimization. <i>Iranian Journal of Science and Technology - Transactions of Civil Engineering</i> , 2021, 45, 513-543.	1.0	10
29	Improved Shuffled Jaya algorithm for sizing optimization of skeletal structures with discrete variables. <i>Structures</i> , 2021, 29, 107-128.	1.7	38
30	Field of Forces Optimization. , 2021, , 145-166.		0
31	Cuckoo Search Optimization. , 2021, , 337-368.		0
32	Dolphin Echolocation Optimization. , 2021, , 167-207.		0
33	Imperialist Competitive Algorithm. , 2021, , 369-390.		0
34	Algorithm. , 2021, , 443-466.		0
35	Vibrating Particles System Algorithm. , 2021, , 527-555.		0
36	Thermal Exchange Metaheuristic Optimization Algorithm. , 2021, , 733-782.		5

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37	Water Evaporation Optimization Algorithm. , 2021, , 505-525.		0
38	Charged System Search Algorithm. , 2021, , 47-92.		0
39	Tug of War Optimization. , 2021, , 467-503.		0
40	Colliding Bodies Optimization. , 2021, , 209-248.		0
41	Ray Optimization Algorithm. , 2021, , 249-294.		0
42	Shuffled Shepherd Optimization Algorithm. , 2021, , 625-661.		4
43	Enhanced Colliding Bodies Optimization. , 2021, , 417-442.		0
44	Enhanced versions of the shuffled shepherd optimization algorithm for the optimal design of skeletal structures. Structures, 2021, 29, 1463-1495.	1.7	12
45	Design optimization of jacket offshore platform considering fatigue damage using Genetic Algorithm. Ocean Engineering, 2021, 227, 108869.	1.9	24
46	Quantum Teaching-Learning-Based Optimization algorithm for sizing optimization of skeletal structures with discrete variables. Structures, 2021, 32, 1798-1819.	1.7	17
47	Frequency-constrained optimization of large-scale dome-shaped trusses using chaotic water strider algorithm. Structures, 2021, 32, 1604-1618.	1.7	20
48	Optimal design of 3D special steel buckling-restrained braced structures. Structural Design of Tall and Special Buildings, 2021, 30, e1893.	0.9	3
49	Optimal analysis for optimal design of cyclic symmetric structures subject to frequency constraints. Structures, 2021, 33, 3122-3136.	1.7	20
50	New enhanced colliding body optimization algorithm based on a novel strategy for exploration. Journal of Building Engineering, 2021, 43, 102553.	1.6	2
51	An enhanced Forensic-Based Investigation algorithm and its application to optimal design of frequency-constrained dome structures. Computers and Structures, 2021, 256, 106643.	2.4	23
52	An improved plasma generation optimization algorithm for optimal design of reinforced concrete frames under time-history loading. Structures, 2021, 34, 758-770.	1.7	4
53	Efficient analysis of block circulant structures. Structures, 2021, 34, 738-747.	1.7	5
54	Magnetic Charged System Search. , 2021, , 93-143.		0

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55	Modified Big Bang-Big Crunch Algorithm. , 2021, , 295-335.		0
56	Optimal Design of Large-Scale Frame Structures. , 2021, , 593-624.		1
57	Water Strider Optimization Algorithm and Its Enhancement. , 2021, , 783-848.		2
58	Advances in Metaheuristic Algorithms for Optimal Design of Structures. , 2021, , .		40
59	Algorithm. , 2021, , 691-731.		0
60	Chaos Embedded Metaheuristic Algorithms. , 2021, , 391-416.		4
61	Machine learning regression approaches for predicting the ultimate buckling load of variable-stiffness composite cylinders. <i>Acta Mechanica</i> , 2021, 232, 921-931.	1.1	106
62	A new VPS-based algorithm for multi-objective optimization problems. <i>Engineering With Computers</i> , 2020, 36, 1029-1040.	3.5	28
63	Hybrid Invasive Weed Optimization-Shuffled Frog-Leaping Algorithm for Optimal Design of Truss Structures. <i>Iranian Journal of Science and Technology - Transactions of Civil Engineering</i> , 2020, 44, 405-420.	1.0	27
64	Optimum design of three-dimensional steel frames with prismatic and non-prismatic elements. <i>Engineering With Computers</i> , 2020, 36, 1011-1027.	3.5	23
65	Sizing Optimization of Truss Structures with Continuous Variables by Artificial Coronary Circulation System Algorithm. <i>Iranian Journal of Science and Technology - Transactions of Civil Engineering</i> , 2020, 44, 1-20.	1.0	11
66	Different Discrete ACCS Algorithms for Optimal Design of Truss Structures: A Comparative Study. <i>Iranian Journal of Science and Technology - Transactions of Civil Engineering</i> , 2020, 44, 49-68.	1.0	1
67	Optimum Design of Tuned Mass Dampers Using Colliding Bodies Optimization in Frequency Domain. <i>Iranian Journal of Science and Technology - Transactions of Civil Engineering</i> , 2020, 44, 787-802.	1.0	16
68	Optimal design of planar RC frames considering CO2 emissions using ECBO, EVPS and PSO metaheuristic algorithms. <i>Journal of Building Engineering</i> , 2020, 28, 101014.	1.6	76
69	Simultaneously multi-material layout, and connectivity optimization of truss structures via an Enriched Firefly Algorithm. <i>Structures</i> , 2020, 27, 2217-2231.	1.7	16
70	Quantum evolutionary algorithm hybridized with Enhanced colliding bodies for optimization. <i>Structures</i> , 2020, 28, 1479-1501.	1.7	6
71	Black Hole Mechanics Optimization: a novel meta-heuristic algorithm. <i>Asian Journal of Civil Engineering</i> , 2020, 21, 1129-1149.	0.8	23
72	Optimal structural control of tall buildings using tuned mass dampers via chaotic optimization algorithm. <i>Structures</i> , 2020, 28, 2704-2713.	1.7	43

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73	Billiards-inspired optimization algorithm; a new meta-heuristic method. Structures, 2020, 27, 1722-1739.	1.7	64
74	Shuffled shepherd optimization method: a new Meta-heuristic algorithm. Engineering Computations, 2020, 37, 2357-2389.	0.7	87
75	Emergency management systems after disastrous earthquakes using optimization methods: A comprehensive review. Advances in Engineering Software, 2020, 149, 102885.	1.8	25
76	Optimal design of planar steel frame structures utilizing meta-heuristic optimization algorithms. Structures, 2020, 25, 335-346.	1.7	43
77	Water strider algorithm: A new metaheuristic and applications. Structures, 2020, 25, 520-541.	1.7	112
78	A set theoretical shuffled shepherd optimization algorithm for optimal design of cantilever retaining wall structures. Engineering With Computers, 2020, 37, 3265.	3.5	28
79	Set theoretical variants of the teaching-learning-based optimization algorithm for optimal design of truss structures with multiple frequency constraints. Acta Mechanica, 2020, 231, 3645-3672.	1.1	17
80	Robust optimum design of a tuned mass damper inerter. Acta Mechanica, 2020, 231, 3871-3896.	1.1	44
81	Statistical seismic performance assessment of tuned mass damper inerter. Structural Control and Health Monitoring, 2020, 27, e2602.	1.9	59
82	Topology optimization of shear wall structures under seismic loading. Earthquake Engineering and Engineering Vibration, 2020, 19, 105-116.	1.1	15
83	Optimization of Egress in Fire Using Hybrid Graph Theory and Metaheuristic Algorithms. Iranian Journal of Science and Technology - Transactions of Civil Engineering, 2020, 44, 1039-1046.	1.0	4
84	An open-source computational framework for optimization of laminated composite plates. Acta Mechanica, 2020, 231, 2629-2650.	1.1	8
85	Seismic performance of steel structures retrofitted with optimal slack cable collapse prevention system. Journal of Building Engineering, 2020, 31, 101392.	1.6	2
86	Metaheuristic Optimization Algorithms in Civil Engineering: New Applications. Studies in Computational Intelligence, 2020, , .	0.7	24
87	Performance-Based Multi-objective Optimization of Large Steel Structures. Studies in Computational Intelligence, 2020, , 157-179.	0.7	3
88	Swift Analysis of Linear and Non-linear Structures and Applications Using Reanalysis. Studies in Systems, Decision and Control, 2020, , 201-245.	0.8	1
89	Static Analysis of Near-Regular Skeletal Structures: Additional Nodes. Studies in Systems, Decision and Control, 2020, , 87-122.	0.8	0
90	Colliding Bodies Optimization Algorithm for Structural Optimization of Offshore Wind Turbines with Frequency Constraints. Studies in Computational Intelligence, 2020, , 219-235.	0.7	1

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91	Geometry and Sizing Optimization of Steel Pitched Roof Frames. <i>Studies in Computational Intelligence</i> , 2020, , 99-114.	0.7	0
92	Optimization of Tower Crane Location and Material Quantity Between Supply and Demand Points. <i>Studies in Computational Intelligence</i> , 2020, , 259-288.	0.7	0
93	Static Analysis of Near-Regular Skeletal Structures: Additional Members. <i>Studies in Systems, Decision and Control</i> , 2020, , 43-86.	0.8	0
94	Optimal Seismic Design of Steel Plate Shear Walls Using CBO and ECBO Algorithms. <i>Studies in Computational Intelligence</i> , 2020, , 181-217.	0.7	2
95	Basic Concepts and Definitions of Symmetry and Regularity. <i>Studies in Systems, Decision and Control</i> , 2020, , 11-41.	0.8	0
96	Static Analysis of Nearly Regular Continuous Domains. <i>Studies in Systems, Decision and Control</i> , 2020, , 123-180.	0.8	1
97	Global Near-Regular Mechanical Systems. <i>Studies in Systems, Decision and Control</i> , 2020, , 247-263.	0.8	0
98	Optimum Stacking Sequence Design of Composite Laminates for Maximum Buckling Load Capacity. <i>Studies in Computational Intelligence</i> , 2020, , 9-50.	0.7	0
99	The Charged System Search Algorithm for Adaptive Node Moving Refinement in Discrete Least-Squares Meshless Method. <i>Studies in Computational Intelligence</i> , 2020, , 139-155.	0.7	0
100	Two-Stage Optimal Sensor Placement Using Graph-Theory and Evolutionary Algorithms. <i>Studies in Computational Intelligence</i> , 2020, , 115-137.	0.7	0
101	Analysis and optimal design of scissor-link foldable structures. <i>Engineering With Computers</i> , 2019, 35, 593-604.	3.5	10
102	Optimum stacking sequence design of composite laminates for maximum buckling load capacity using parameter-less optimization algorithms. <i>Engineering With Computers</i> , 2019, 35, 813-832.	3.5	23
103	Construction Site Layout Planning Problem Using Metaheuristic Algorithms: A Comparative Study. <i>Iranian Journal of Science and Technology - Transactions of Civil Engineering</i> , 2019, 43, 105-115.	1.0	12
104	Geometry and Sizing Optimization of Steel Pitched Roof Frames with Tapered Members Using Nine Metaheuristics. <i>Iranian Journal of Science and Technology - Transactions of Civil Engineering</i> , 2019, 43, 1-8.	1.0	15
105	An efficient two-stage method for optimal sensor placement using graph-theoretical partitioning and evolutionary algorithms. <i>Structural Control and Health Monitoring</i> , 2019, 26, e2325.	1.9	26
106	Chaos-based firefly algorithms for optimization of cyclically large-size braced steel domes with multiple frequency constraints. <i>Computers and Structures</i> , 2019, 214, 28-39.	2.4	54
107	Quantum evolutionary algorithm with rotational gate and $\$H_{\epsilon}$ gate updating in real and integer domains for optimization. <i>Acta Mechanica</i> , 2019, 230, 2937-2961.	1.1	8
108	Colliding Bodies Optimization Algorithm. , 2019, , 113-121.		1

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109	Water Evaporation Optimization Algorithm. , 2019, , 137-152.		0
110	Thermal Exchange Optimization Algorithm. , 2019, , 179-190.		3
111	Metaheuristics: Outlines, MATLAB Codes and Examples. , 2019, , .		66
112	Optimum design of large steel skeletal structures using chaotic firefly optimization algorithm based on the Gaussian map. Structural and Multidisciplinary Optimization, 2019, 60, 879-894.	1.7	23
113	Charged System Search Algorithm. , 2019, , 79-96.		1
114	A New Nodal Stress Recovery Technique in Finite Element Method Using Colliding Bodies Optimization Algorithm. Periodica Polytechnica: Civil Engineering, 2019, , .	0.6	0
115	A New Two-Phase Method for Damage Detection in Skeletal Structures. Iranian Journal of Science and Technology - Transactions of Civil Engineering, 2019, 43, 49-65.	1.0	11
116	Frequencies of Some Near-Regular Structures: A Combined Graph Product and Bisection Method. Iranian Journal of Science and Technology - Transactions of Civil Engineering, 2019, 43, 159-170.	1.0	1
117	Hypotrochoid spiral optimization approach for sizing and layout optimization of truss structures with multiple frequency constraints. Engineering With Computers, 2019, 35, 1443-1462.	3.5	22
118	Robust design optimization of laminated plates under uncertain bounded buckling loads. Structural and Multidisciplinary Optimization, 2019, 59, 877-891.	1.7	32
119	Multi-objective colliding bodies optimization algorithm for design of trusses. Journal of Computational Design and Engineering, 2019, 6, 49-59.	1.5	35
120	Artificial Coronary Circulation System; A new bio-inspired metaheuristic algorithm. Scientia Iranica, 2019, .	0.3	4
121	Optimum Seismic Design of 3D Irregular Steel Frames Using Recently Developed Metaheuristic Algorithms. Journal of Computing in Civil Engineering, 2018, 32, .	2.5	17
122	Meta-heuristic Algorithms for Optimal Design of Real-Size Structures. , 2018, , .		51
123	Optimum Design of Double-layer Barrel Vaults by Lion Pride Optimization Algorithm and a Comparative Study. Structures, 2018, 13, 213-229.	1.7	15
124	Buckling load of laminated composite plates using three variants of the biogeography-based optimization algorithm. Acta Mechanica, 2018, 229, 1551-1566.	1.1	15
125	Optimal Design of Dome-Shaped Trusses. , 2018, , 101-122.		1
126	Optimal Design of Large-Scale Special Truss Structures. , 2018, , 45-63.		0



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127	Chaotic enhanced colliding bodies algorithms for size optimization of truss structures. <i>Acta Mechanica</i> , 2018, 229, 2883-2907.	1.1	17
128	Patient rule-induction method for liquefaction potential assessment based on CPT data. <i>Bulletin of Engineering Geology and the Environment</i> , 2018, 77, 849-865.	1.6	16
129	A new hybrid meta-heuristic algorithm for optimal design of large-scale dome structures. <i>Engineering Optimization</i> , 2018, 50, 235-252.	1.5	41
130	Structural damage identification using an enhanced thermal exchange optimization algorithm. <i>Engineering Optimization</i> , 2018, 50, 430-451.	1.5	71
131	Optimal design of nonlinear large-scale suspendome using cascade optimization. <i>International Journal of Space Structures</i> , 2018, 33, 3-18.	0.3	16
132	Optimal design of cyclically symmetric trusses with frequency constraints using cyclical parthenogenesis algorithm. <i>Advances in Structural Engineering</i> , 2018, 21, 739-755.	1.2	25
133	Improved GWO algorithm for optimal design of truss structures. <i>Engineering With Computers</i> , 2018, 34, 685-707.	3.5	83
134	Graph transformations for efficient structural analysis. <i>Acta Mechanica</i> , 2018, 229, 659-675.	1.1	2
135	Optimization of Building Components with Sustainability Aspects in BIM Environment. <i>Periodica Polytechnica: Civil Engineering</i> , 2018, , .	0.6	14
136	Comparison of four meta-heuristic algorithms for optimal design of double-layer barrel vaults. <i>International Journal of Space Structures</i> , 2018, 33, 115-123.	0.3	0
137	Performance of the Modified Dolphin Monitoring Operator for Weight Optimization of Skeletal Structures. <i>Periodica Polytechnica: Civil Engineering</i> , 2018, , .	0.6	3
138	Economic dispatch of power systems using an adaptive charged system search algorithm. <i>Applied Soft Computing Journal</i> , 2018, 73, 607-622.	4.1	50
139	Layout Optimization of Planar Braced Frames Using Modified Dolphin Monitoring Operator. <i>Periodica Polytechnica: Civil Engineering</i> , 2018, , .	0.6	2
140	Meta-heuristic methods for optimization of truss structures with vibration frequency constraints. <i>Acta Mechanica</i> , 2018, 229, 3971-3992.	1.1	20
141	Optimal Design of Double-Layer Barrel Vault Space Structures. , 2018, , 85-99.		1
142	Structural optimization of jacket supporting structures for offshore wind turbines using colliding bodies optimization algorithm. <i>Structural Design of Tall and Special Buildings</i> , 2018, 27, e1494.	0.9	18
143	Optimal Design of Double-Layer Domes Considering Different Mechanical Systems via ECBO. <i>Iranian Journal of Science and Technology - Transactions of Civil Engineering</i> , 2018, 42, 333-344.	1.0	5
144	Optimization Algorithms Utilized in This Book. , 2018, , 7-22.		0

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145	Optimal Seismic Design of 3D Steel Frames. , 2018, , 139-155.		3
146	Optimal Design of Double-Layer Grids. , 2018, , 65-83.		1
147	Optimal Design of Steel Lattice Transmission Line Towers. , 2018, , 123-137.		4
148	Optimal Design of Usual-Size Skeletal Structures. , 2018, , 23-44.		0
149	Nonlinear analysis of reinforced concrete membrane elements considering tension stiffening. Asian Journal of Civil Engineering, 2018, 19, 693-701.	0.8	0
150	A mesh free method using rectangular pre-solved domains using Kronecker products. Mechanics Based Design of Structures and Machines, 2017, 45, 92-110.	3.4	5
151	Optimal design of large-scale space steel frames using cascade enhanced colliding body optimization. Structural and Multidisciplinary Optimization, 2017, 55, 237-256.	1.7	42
152	Analysis and reanalysis of mechanical systems: concept of global near-regularity. Acta Mechanica, 2017, 228, 1445-1456.	1.1	8
153	Guided Modal Strain Energy-Based Approach for Structural Damage Identification Using Tug-of-War Optimization Algorithm. Journal of Computing in Civil Engineering, 2017, 31, .	2.5	29
154	Analysis of repetitive and near-repetitive structures by transformation to equivalent circulant structures. Engineering Computations, 2017, 34, 343-363.	0.7	4
155	A novel meta-heuristic optimization algorithm: Thermal exchange optimization. Advances in Engineering Software, 2017, 110, 69-84.	1.8	438
156	Cyclical Parthenogenesis Algorithm for guided modal strain energy based structural damage detection. Applied Soft Computing Journal, 2017, 57, 250-264.	4.1	46
157	Applications of Metaheuristic Optimization Algorithms in Civil Engineering. , 2017, , .		105
158	Optimal seismic design of 3D steel moment frames: different ductility types. Structural and Multidisciplinary Optimization, 2017, 56, 1353-1368.	1.7	18
159	Modification of Ground Motions Using Enhanced Colliding Bodies Optimization Algorithm. , 2017, , 213-234.		1
160	Damage Detection in Skeletal Structures Based on CSS Optimization Using Incomplete Modal Data. , 2017, , 201-211.		3
161	Optimal Analysis and Design of Large-Scale Domes with Frequency Constraints. , 2017, , 257-279.		7
162	Sizing Optimization of Skeletal Structures Using the Enhanced Whale Optimization Algorithm. , 2017, , 47-69.		11

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163	Optimal Design of the Monopole Structures Using the CBO and ECBO Algorithms. , 2017, , 185-199.		2
164	Bandwidth, Profile, and Wavefront Optimization Using CBO, ECBO, and TWO Algorithms. , 2017, , 235-256.		2
165	Optimum Design of Large-Scale Truss Towers Using Cascade Optimization. , 2017, , 281-295.		0
166	Vibrating Particles System Algorithm for Truss Optimization with Frequency Constraints. , 2017, , 297-317.		0
167	Cost and CO2 Emission Optimization of Reinforced Concrete Frames Using Enhanced Colliding Bodies Optimization Algorithm. , 2017, , 319-350.		17
168	Construction Site Layout Planning Using Colliding Bodies Optimization and Enhanced Colliding Bodies Optimization. , 2017, , 351-373.		1
169	Optimum Design of Multi-span Composite Box Girder Bridges Using Cuckoo Search Algorithm. , 2017, , 31-46.		3
170	Size and Geometry Optimization of Double-Layer Grids Using the CBO and ECBO Algorithms. , 2017, , 71-89.		0
171	Sizing and Geometry Optimization of Different Mechanical Systems of Domes via the ECBO Algorithm. , 2017, , 91-116.		1
172	Simultaneous Shape&#x2014;Size Optimization of Single-Layer Barrel Vaults Using an Improved Magnetic Charged System Search Algorithm. , 2017, , 117-146.		1
173	Optimum Design of Steel Floor Systems Using ECBO. , 2017, , 165-184.		0
174	Optimum seismic design of steel frames considering the connection types. Journal of Constructional Steel Research, 2017, 130, 79-87.	1.7	20
175	New Model Derivation for the Bond Behavior of NSM FRP Systems in Concrete. Iranian Journal of Science and Technology - Transactions of Civil Engineering, 2017, 41, 249-262.	1.0	9
176	Enhanced Two-Dimensional CBO Algorithm for Design of Grillage Systems. Iranian Journal of Science and Technology - Transactions of Civil Engineering, 2017, 41, 263-273.	1.0	1
177	Advances in Metaheuristic Algorithms for Optimal Design of Structures. , 2017, , .		83
178	Tug of War Optimization. , 2017, , 451-487.		8
179	Optimal Design of Large-Scale Frame Structures. , 2017, , 573-602.		0
180	Cyclical parthenogenesis algorithm for layout optimization of truss structures with frequency constraints. Engineering Optimization, 2017, 49, 1317-1334.	1.5	30

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181	Global Sensitivity Analysis-Based Optimization Algorithm. , 2017, , 427-449.		1
182	Cyclical Parthenogenesis Optimization Algorithm. , 2017, , 541-572.		4
183	Multi-Objective Optimization of Truss Structures. , 2017, , 603-631.		1
184	Size and Geometry Optimization of Double-Layer Grids Using CBO and ECBO Algorithms. Iranian Journal of Science and Technology - Transactions of Civil Engineering, 2017, 41, 101-112.	1.0	5
185	Graph theoretical methods for efficient stochastic finite element analysis of structures. Computers and Structures, 2017, 178, 29-46.	2.4	13
186	Bandwidth, Profile and Wavefront Optimization Using PSO, CBO, ECBO and TWO Algorithms. Iranian Journal of Science and Technology - Transactions of Civil Engineering, 2017, 41, 1-12.	1.0	5
187	A Multistage Algorithm for Blood Banking Supply Chain Allocation Problem. International Journal of Civil Engineering, 2017, 15, 103-112.	0.9	25
188	Enhanced whale optimization algorithm for sizing optimization of skeletal structures. Mechanics Based Design of Structures and Machines, 2017, 45, 345-362.	3.4	168
189	Vibrating particles system algorithm for truss optimization with multiple natural frequency constraints. Acta Mechanica, 2017, 228, 307-322.	1.1	99
190	Modified Dolphin Monitoring Operator for Weight Optimization of Frame Structures. Periodica Polytechnica: Civil Engineering, 2017, , .	0.6	7
191	Cuckoo Search Optimization. , 2017, , 321-352.		4
192	Chaos Embedded Metaheuristic Algorithms. , 2017, , 375-398.		5
193	Vibrating Particles System Algorithm. , 2017, , 511-539.		2
194	Particle Swarm Optimization. , 2017, , 11-43.		17
195	Charged System Search Algorithm. , 2017, , 45-89.		2
196	Optimal seismic design of 3D steel moment frames: different ductility types. , 2017, 56, 1353.		1
197	A hybrid WOA-CBO algorithm for construction site layout planning problem. Scientia Iranica, 2017, .	0.3	14
198	Efficient multi-objective optimization algorithms for construction site layout problem. Scientia Iranica, 2017, .	0.3	9

#	ARTICLE	IF	CITATIONS
199	Enhanced vibrating particles system algorithm for damage identification of truss structures. Scientia Iranica, 2017, .	0.3	10
200	Ray Optimization Algorithm. , 2017, , 237-280.		2
201	Water Evaporation Optimization Algorithm. , 2017, , 489-509.		3
202	Modified Big Bang“Big Crunch Algorithm. , 2017, , 281-320.		0
203	Natural Forest Regeneration Algorithm for Optimum Design of Truss Structures with Continuous and Discrete Variables. Periodica Polytechnica: Civil Engineering, 2016, 60, 257-267.	0.6	1
204	A Numerical Method for Eigensolution of Near-Regular Structural and Mechanical Systems. Periodica Polytechnica: Civil Engineering, 2016, 60, 247-255.	0.6	1
205	Optimal Design of the Monopole Structures Using the CBO and ECBO Algorithms. Periodica Polytechnica: Civil Engineering, 2016, , .	0.6	1
206	Optimal Design of Steel Towers Using a Multi-Metaheuristic Based Search Method. Periodica Polytechnica: Civil Engineering, 2016, 60, 229-246.	0.6	7
207	Optimum Design of Skeletal Structures Using PSO-Based Algorithms. Periodica Polytechnica: Civil Engineering, 2016, , .	0.6	2
208	Optimal Design of Double-Layer Barrel Vaults Using CBO and ECBO Algorithms. Iranian Journal of Science and Technology - Transactions of Civil Engineering, 2016, 40, 167-178.	1.0	14
209	Optimum design of large-scale truss towers using cascade optimization. Acta Mechanica, 2016, 227, 2645-2656.	1.1	10
210	A numerical solution for Laplace and Poisson's equations using geometrical transformation and graph products. Applied Mathematical Modelling, 2016, 40, 7768-7783.	2.2	9
211	Cost optimum design of post-tensioned concrete bridges using a modified colliding bodies optimization algorithm. Advances in Engineering Software, 2016, 98, 12-22.	1.8	18
212	Application of CBO and CSS for Resource Allocation and Resource Leveling Problem. Iranian Journal of Science and Technology - Transactions of Civil Engineering, 2016, 40, 1-10.	1.0	6
213	An accelerated water evaporation optimization formulation for discrete optimization of skeletal structures. Computers and Structures, 2016, 177, 218-228.	2.4	30
214	Optimum Design of Laterally Supported Castellated Beams Using Natural Forest Regeneration Algorithm. Iranian Journal of Science and Technology - Transactions of Civil Engineering, 2016, 40, 195-207.	1.0	11
215	Natural Forest Regeneration Algorithm: A New Meta-Heuristic. Iranian Journal of Science and Technology - Transactions of Civil Engineering, 2016, 40, 311-326.	1.0	7
216	Construction Site Layout Planning Problem Using Two New Meta-heuristic Algorithms. Iranian Journal of Science and Technology - Transactions of Civil Engineering, 2016, 40, 263-275.	1.0	23

#	ARTICLE	IF	CITATIONS
217	Analytical Solution of Laplace and Poisson Equations Using Conformal Mapping and Kronecker Products. <i>International Journal of Civil Engineering</i> , 2016, 14, 369-377.	0.9	1
218	Fuzzy Resource Constraint Project Scheduling Problem Using CBO and CSS Algorithms. <i>International Journal of Civil Engineering</i> , 2016, 14, 325-337.	0.9	14
219	A new method for modification of ground motions using wavelet transform and enhanced colliding bodies optimization. <i>Applied Soft Computing Journal</i> , 2016, 47, 357-369.	4.1	23
220	Application of Probabilistic Particle Swarm in Optimal Design of Large-Span Prestressed Concrete Slabs. <i>Iranian Journal of Science and Technology - Transactions of Civil Engineering</i> , 2016, 40, 33-40.	1.0	7
221	Dolphin monitoring for enhancing metaheuristic algorithms: Layout optimization of braced frames. <i>Computers and Structures</i> , 2016, 165, 1-9.	2.4	20
222	An efficient finite element solution using a large pre-solved regular element. <i>Acta Mechanica</i> , 2016, 227, 1331-1349.	1.1	4
223	Derivation of New Equations for Prediction of Principal Ground-Motion Parameters using M5 <sup>2</sup> Algorithm. <i>Journal of Earthquake Engineering</i> , 2016, 20, 910-930.	1.4	23
224	Water Evaporation Optimization: A novel physically inspired optimization algorithm. <i>Computers and Structures</i> , 2016, 167, 69-85.	2.4	263
225	A new metaheuristic for continuous structural optimization: water evaporation optimization. <i>Structural and Multidisciplinary Optimization</i> , 2016, 54, 23-43.	1.7	70
226	Optimal design of dome truss structures with dynamic frequency constraints. <i>Structural and Multidisciplinary Optimization</i> , 2016, 53, 605-621.	1.7	44
227	Truss optimization with dynamic constraints using UECBO. <i>Advances in Computational Design</i> , 2016, 1, 119-138.	0.3	10
228	Optimum design of steel floor system: effect of floor division number, deck thickness and castellated beams. <i>Structural Engineering and Mechanics</i> , 2016, 59, 933-950.	1.0	23
229	Optimal design of truss structures using a new optimization algorithm based on global sensitivity analysis. <i>Structural Engineering and Mechanics</i> , 2016, 60, 1093-1117.	1.0	13
230	Optimal analysis and design of large-scale domes with frequency constraints. <i>Smart Structures and Systems</i> , 2016, 18, 733-754.	1.9	16
231	Detection of damage in truss structures using Simplified Dolphin Echolocation algorithm based on modal data. <i>Smart Structures and Systems</i> , 2016, 18, 983-1004.	1.9	23
232	Topology and geometry optimization of single-layer domes utilizing CBO and ECBO. <i>Scientia Iranica</i> , 2016, 23, 535-547.	0.3	12
233	An efficient method for seismic analysis of structures. <i>Engineering Computations</i> , 2015, 32, 1708-1721.	0.7	2
234	CBO and CSS Algorithms for Resource Allocation and Time-Cost Trade-Off. <i>Periodica Polytechnica: Civil Engineering</i> , 2015, 59, 361-371.	0.6	11

#	ARTICLE	IF	CITATIONS
235	Layout Optimization of Braced Frames Using Differential Evolution Algorithm and Dolphin Echolocation Optimization. <i>Periodica Polytechnica: Civil Engineering</i> , 2015, 59, 441-449.	0.6	8
236	Efficient finite element analysis using graph-theoretical force method; rectangular plane stress and plane strain Lagrange family elements. <i>Applied Mathematics and Computation</i> , 2015, 266, 72-94.	1.4	2
237	Subspace search mechanism and cuckoo search algorithm for size optimization of space trusses. <i>Steel and Composite Structures</i> , 2015, 18, 289-303.	1.3	4
238	Swift Analysis for Size and Geometry Optimization of Structures. <i>Advances in Structural Engineering</i> , 2015, 18, 365-380.	1.2	8
239	Colliding-Bodies Optimization for Truss Optimization with Multiple Frequency Constraints. <i>Journal of Computing in Civil Engineering</i> , 2015, 29, .	2.5	23
240	An improved magnetic charged system search for optimization of truss structures with continuous and discrete variables. <i>Applied Soft Computing Journal</i> , 2015, 28, 400-410.	4.1	49
241	Two-dimensional colliding bodies algorithm for optimal design of truss structures. <i>Advances in Engineering Software</i> , 2015, 83, 70-79.	1.8	33
242	Optimal domain decomposition using Colliding Bodies Optimization and k-median method. <i>Finite Elements in Analysis and Design</i> , 2015, 98, 41-49.	1.7	10
243	Optimal Design of Truss Structures with Discrete Variables Using Colliding Bodies Optimization. , 2015, , 87-104.		1
244	Resource Allocation and Time-Cost Trade-Off Using Colliding Bodies Optimization. , 2015, , 261-277.		0
245	Enhanced Versions of the CBO Algorithm. , 2015, , 107-160.		0
246	Domain Decomposition of Finite Element Models and Bandwidth Reduction of Sparse Matrices. , 2015, , 237-259.		0
247	A Comparative Study of CBO and ECBO for Optimal Design of Structures. , 2015, , 161-180.		0
248	Optimum Design of Castellated Beams Utilizing Colliding Bodies Optimization. , 2015, , 181-198.		2
249	Colliding Bodies Optimization. , 2015, , .		52
250	Optimal Design of Truss Structures with Continuous Variables Using Colliding Bodies Optimization. , 2015, , 39-86.		0
251	A comparative study of CBO and ECBO for optimal design of skeletal structures. <i>Computers and Structures</i> , 2015, 153, 137-147.	2.4	72
252	Efficient finite element solution of regular and near-regular systems using graph products. <i>Acta Mechanica</i> , 2015, 226, 2393-2405.	1.1	5

#	ARTICLE	IF	CITATIONS
253	A hybrid CBOâ€“PSO algorithm for optimal design of truss structures with dynamic constraints. Applied Soft Computing Journal, 2015, 34, 260-273.	4.1	55
254	Advances in swift analysis of structures: Near-regular structures, and optimal analysis and design. Advances in Engineering Software, 2015, 90, 119-126.	1.8	4
255	Hypergraph products for structural mechanics. Advances in Engineering Software, 2015, 80, 72-81.	1.8	4
256	Seismic optimal design of 3D steel frames using cuckoo search algorithm. Structural Design of Tall and Special Buildings, 2015, 24, 210-227.	0.9	46
257	An improved CSS for damage detection of truss structures using changes in natural frequencies and mode shapes. Advances in Engineering Software, 2015, 80, 93-100.	1.8	104
258	Hybridized optimization algorithms for design of trusses with multiple natural frequency constraints. Advances in Engineering Software, 2015, 79, 137-147.	1.8	76
259	New developments in the optimal analysis of regular and near-regular structures: decomposition, graph products, force method. Acta Mechanica, 2015, 226, 665-681.	1.1	20
260	Enhanced Colliding Bodies Algorithm for Truss Optimization with Frequency Constraints. Journal of Computing in Civil Engineering, 2015, 29, .	2.5	26
261	Optimum design of laterally-supported castellated beams using CBO algorithm. Steel and Composite Structures, 2015, 18, 305-324.	1.3	27
262	Colliding bodies optimization for size and topology optimization of truss structures. Structural Engineering and Mechanics, 2015, 53, 847-865.	1.0	26
263	Optimum topology design of geometrically nonlinear suspended domes using ECBO. Structural Engineering and Mechanics, 2015, 56, 667-694.	1.0	23
264	Damage detection based on MCSS and PSO using modal data. Smart Structures and Systems, 2015, 15, 1253-1270.	1.9	57
265	Efficient non-linear analysis and optimal design of biomechanical systems. Biomaterials and Biomechanics in Bioengineering, 2015, 2, 207-223.	0.4	1
266	Chaotic biogeography algorithm for size and shape optimization of truss structures with frequency constraints. Periodica Polytechnica: Civil Engineering, 2014, 58, 397-422.	0.6	20
267	Magnetic charged system search for structural optimization. Periodica Polytechnica: Civil Engineering, 2014, 58, 203-216.	0.6	4
268	An efficient hybrid particle swarm strategy, ray optimizer, and harmony search algorithm for optimal design of truss structures. Periodica Polytechnica: Civil Engineering, 2014, 58, 155-171.	0.6	8
269	Cuckoo Search Optimization. , 2014, , 317-347.		3
270	Damage-based optimization of large-scale steel structures. Earthquake and Structures, 2014, 7, 1119-1139.	1.0	13



#	ARTICLE	IF	CITATIONS
271	Life-cycle cost optimization of steel moment-frame structures: performance-based seismic design approach. Earthquake and Structures, 2014, 7, 271-294.	1.0	31
272	Optimal seismic design of Reinforced Concrete shear wall-frame structures. KSCE Journal of Civil Engineering, 2014, 18, 2181-2190.	0.9	40
273	Particle Swarm Optimization. , 2014, , 9-40.		26
274	Colliding Bodies Optimization. , 2014, , 195-232.		6
275	A Multi-swarm Multi-objective Optimization Method for Structural Design. , 2014, , 393-426.		0
276	Imperialist Competitive Algorithm. , 2014, , 349-368.		3
277	Colliding Bodies Optimization method for optimum design of truss structures with continuous variables. Advances in Engineering Software, 2014, 70, 1-12.	1.8	131
278	Computational Structural Analysis and Finite Element Methods. , 2014, , .		59
279	Chaotic swarming of particles: A new method for size optimization of truss structures. Advances in Engineering Software, 2014, 67, 136-147.	1.8	133
280	Colliding Bodies Optimization method for optimum discrete design of truss structures. Computers and Structures, 2014, 139, 43-53.	2.4	101
281	Colliding bodies optimization: A novel meta-heuristic method. Computers and Structures, 2014, 139, 18-27.	2.4	504
282	Comparison of nine meta-heuristic algorithms for optimal design of truss structures with frequency constraints. Advances in Engineering Software, 2014, 76, 9-30.	1.8	52
283	Enhanced colliding bodies optimization for design problems with continuous and discrete variables. Advances in Engineering Software, 2014, 77, 66-75.	1.8	182
284	An efficient hybrid Particle Swarm and Swallow Swarm Optimization algorithm. Computers and Structures, 2014, 143, 40-59.	2.4	98
285	Analysis of Irregular Structures Composed of Regular and Irregular Parts Using Graph Products. Journal of Computing in Civil Engineering, 2014, 28, .	2.5	12
286	Shape and size optimization of trusses with multiple frequency constraints using harmony search and ray optimizer for enhancing the particle swarm optimization algorithm. Acta Mechanica, 2014, 225, 1595-1605.	1.1	65
287	Advances in Metaheuristic Algorithms for Optimal Design of Structures. , 2014, , .		134
288	Democratic PSO for truss layout and size optimization with frequency constraints. Computers and Structures, 2014, 130, 10-21.	2.4	170

#	ARTICLE	IF	CITATIONS
289	Performance-based seismic design of steel frames utilizing charged system search optimization. Applied Soft Computing Journal, 2014, 22, 213-221.	4.1	51
290	Charged System Search Algorithm. , 2014, , 41-85.		2
291	Magnetic Charged System Search. , 2014, , 87-134.		2
292	Optimum design of multi-span composite box girder bridges using Cuckoo Search algorithm. Steel and Composite Structures, 2014, 17, 705-719.	1.3	15
293	Sizing, geometry and topology optimization of trusses using force method and supervised charged system search. Structural Engineering and Mechanics, 2014, 50, 365-382.	1.0	23
294	A new hybrid meta-heuristic for structural design: ranked particles optimization. Structural Engineering and Mechanics, 2014, 52, 405-426.	1.0	12
295	A new PSRO algorithm for frequency constraint truss shape and size optimization. Structural Engineering and Mechanics, 2014, 52, 445-468.	1.0	23
296	Ordering for Optimal Patterns of Structural Matrices: Algebraic Graph Theory and Meta-heuristic Based Methods. , 2014, , 187-214.		0
297	Analysis of Regular Structures Using Graph Products. , 2014, , 377-406.		0
298	Ordering for Optimal Patterns of Structural Matrices: Graph Theory Methods. , 2014, , 137-186.		0
299	Field of Forces Optimization. , 2014, , 135-155.		0
300	Dolphin Echolocation Optimization. , 2014, , 157-193.		0
301	Chaos Embedded Metaheuristic Algorithms. , 2014, , 369-391.		1
302	Modified Big Bang“Big Crunch Algorithm. , 2014, , 277-315.		0
303	Optimum design of steel frames using Cuckoo Search algorithm with Lévy flights. Structural Design of Tall and Special Buildings, 2013, 22, 1023-1036.	0.9	96
304	Simultaneous analysis, design and optimization of structures using the force method and supervised charged system search algorithm. Scientia Iranica, 2013, 20, 65-65.	0.3	4
305	Introduction to Symmetry and Regularity. , 2013, , 1-14.		1
306	Graph Products and Configuration Processing. , 2013, , 37-67.		0

#	ARTICLE	IF	CITATIONS
307	Canonical Forms, Basic Definitions and Properties. , 2013, , 69-113.		0
308	Graph Products for Ordering and Domain Decomposition. , 2013, , 131-152.		0
309	Canonical Forms Applied to Structural Mechanics. , 2013, , 153-263.		0
310	Graphâ€‘Group Method for the Analysis of Symmetric-Regular Structures. , 2013, , 433-458.		0
311	Charged System Search Algorithm for the Optimum Cost Design of Reinforced Concrete Cantilever Retaining Walls. Arabian Journal for Science and Engineering, 2013, 38, 563-570.	1.1	43
312	Analysis of structures convertible to repeated structures using graph products. Computers and Structures, 2013, 125, 153-163.	2.4	24
313	Analysis of structures transformable to circulant form using U-transformation and Kronecker products. Acta Mechanica, 2013, 224, 1625-1642.	1.1	1
314	A new hybrid optimization algorithm for recognition of hysteretic non-linear systems. KSCE Journal of Civil Engineering, 2013, 17, 1099-1108.	0.9	18
315	Optimum Design of Skeletal Structures via Big Bangâ€‘Big Crunch Algorithm. , 2013, , 173-205.		2
316	Efficient finite element analysis of models comprised of higher order triangular elements. Acta Mechanica, 2013, 224, 1957-1975.	1.1	1
317	Magnetic charged system search: a new meta-heuristic algorithm for optimization. Acta Mechanica, 2013, 224, 85-107.	1.1	102
318	Optimal Analysis of Structures by Concepts of Symmetry and Regularity. , 2013, , .		79
319	Shape optimization of arch dams under earthquake loading using meta-heuristic algorithms. KSCE Journal of Civil Engineering, 2013, 17, 1690-1699.	0.9	6
320	Topology optimization of trusses considering static and dynamic constraints using the CSS. Applied Soft Computing Journal, 2013, 13, 2727-2734.	4.1	63
321	Ray optimization for size and shape optimization of truss structures. Computers and Structures, 2013, 117, 82-94.	2.4	118
322	A hybrid evolutionary graph-based multi-objective algorithm for layout optimization of truss structures. Acta Mechanica, 2013, 224, 343-364.	1.1	33
323	Efficient finite element analysis using graph-theoretical force method; hexahedron elements. Computers and Structures, 2013, 128, 175-188.	2.4	1
324	Optimal design of steel frames under seismic loading using two meta-heuristic algorithms. Journal of Constructional Steel Research, 2013, 82, 111-130.	1.7	39

#	ARTICLE	IF	CITATIONS
325	A new optimization method: Dolphin echolocation. <i>Advances in Engineering Software</i> , 2013, 59, 53-70.	1.8	397
326	A new multi-swarm multi-objective optimization method for structural design. <i>Advances in Engineering Software</i> , 2013, 58, 54-69.	1.8	41
327	Analysis of Regular Structures with Member Irregularity Using the Equilibrium Equations and the Singular Value Decomposition. <i>Advances in Structural Engineering</i> , 2013, 16, 823-843.	1.2	7
328	Optimal design of structures with multiple natural frequency constraints using a hybridized BB-BC/Quasi-Newton algorithm. <i>Periodica Polytechnica: Civil Engineering</i> , 2013, 57, 27.	0.6	19
329	An improved ray optimization algorithm for design of truss structures. <i>Periodica Polytechnica: Civil Engineering</i> , 2013, 57, 97.	0.6	37
330	Seismic design of steel frames using multi-objective optimization. <i>Structural Engineering and Mechanics</i> , 2013, 45, 211-232.	1.0	18
331	Constructability optimal design of reinforced concrete retaining walls using a multi-objective genetic algorithm. <i>Structural Engineering and Mechanics</i> , 2013, 47, 227-245.	1.0	82
332	Graph Products Applied to the Analysis of Regular Structures. , 2013, , 265-313.		0
333	Graph Products Applied to the Regular and Locally Modified Regular Structures Using Iterative Methods. , 2013, , 341-399.		0
334	New developments in graph products and applications in structural engineering. <i>Pollack Periodica</i> , 2012, 7, 105-117.	0.2	1
335	Analysis of near-regular structures using the force method. <i>Engineering Computations</i> , 2012, 30, 21-48.	0.7	14
336	Static and modal analyses of structures with different repeated patterns. <i>Advances in Engineering Software</i> , 2012, 51, 1-9.	1.8	9
337	Chaotic imperialist competitive algorithm for optimum design of truss structures. <i>Structural and Multidisciplinary Optimization</i> , 2012, 46, 355-367.	1.7	55
338	Free vibration analysis of locally modified regular structures using shifted inverse iteration method. <i>Computers and Structures</i> , 2012, 108-109, 75-82.	2.4	2
339	A new meta-heuristic method: Ray Optimization. <i>Computers and Structures</i> , 2012, 112-113, 283-294.	2.4	624
340	Cost optimization of a composite floor system, one-way waffle slab, and concrete slab formwork using a charged system search algorithm. <i>Scientia Iranica</i> , 2012, 19, 410-416.	0.3	36
341	Parameter identification of Bouc-Wen model for MR fluid dampers using adaptive charged system search optimization. <i>Journal of Mechanical Science and Technology</i> , 2012, 26, 2523-2534.	0.7	66
342	Engineering design optimization using chaotic enhanced charged system search algorithms. <i>Acta Mechanica</i> , 2012, 223, 2269-2285.	1.1	26

#	ARTICLE	IF	CITATIONS
343	Weighted triangular and circular graph products for configuration processing. <i>Periodica Polytechnica: Civil Engineering</i> , 2012, 56, 63.	0.6	4
344	A hybrid HS-CSS algorithm for simultaneous analysis, design and optimization of trusses via force method. <i>Periodica Polytechnica: Civil Engineering</i> , 2012, 56, 197.	0.6	5
345	Geometrically nonlinear analysis of circulant structures using an efficient eigensolution method. <i>Acta Mechanica</i> , 2012, 223, 2167-2182.	1.1	2
346	Canonical Forms for Symmetric and Regular Structures. <i>Mathematical Modelling and Algorithms</i> , 2012, 11, 119-157.	0.5	4
347	Efficient finite element analysis using graph-theoretical force method with brick elements. <i>Finite Elements in Analysis and Design</i> , 2012, 54, 1-15.	1.7	8
348	Charged system search for optimal design of frame structures. <i>Applied Soft Computing Journal</i> , 2012, 12, 382-393.	4.1	137
349	Discrete cost optimization of composite floor system using social harmony search model. <i>Applied Soft Computing Journal</i> , 2012, 12, 372-381.	4.1	44
350	Truss optimization with natural frequency constraints using a hybridized CSS-BBBC algorithm with trap recognition capability. <i>Computers and Structures</i> , 2012, 102-103, 14-27.	2.4	147
351	Performance-based multi-objective optimization of large steel structures. <i>Acta Mechanica</i> , 2012, 223, 355-369.	1.1	76
352	A hybrid CSS and PSO algorithm for optimal design of structures. <i>Structural Engineering and Mechanics</i> , 2012, 42, 783-797.	1.0	29
353	Time-history analysis based optimal design of space trusses: the CMA evolution strategy approach using GRNN and WA. <i>Structural Engineering and Mechanics</i> , 2012, 44, 379-403.	1.0	19
354	Hybrid charged system search and particle swarm optimization for engineering design problems. <i>Engineering Computations</i> , 2011, 28, 423-440.	0.7	50
355	A multi-set charged system search for truss optimization with variables of different natures; element grouping. <i>Periodica Polytechnica: Civil Engineering</i> , 2011, 55, 87.	0.6	6
356	An Efficient Solution Method for the Free Vibration of Large Repetitive Space Structures. <i>Advances in Structural Engineering</i> , 2011, 14, 151-161.	1.2	2
357	Solving the conditional and unconditional -center problem with modified harmony search: A real case study. <i>Scientia Iranica</i> , 2011, 18, 867-877.	0.3	22
358	Efficient finite element analysis by graph-theoretical force method; rectangular and triangular plate bending elements. <i>Scientia Iranica</i> , 2011, 18, 1045-1053.	0.3	1
359	A novel hybrid charge system search and particle swarm optimization method for multi-objective optimization. <i>Expert Systems With Applications</i> , 2011, 38, 15475-15488.	4.4	72
360	Approximate eigensolution of Laplacian matrices for locally modified graph products. <i>Journal of Computational and Applied Mathematics</i> , 2011, 236, 1591-1603.	1.1	4

#	ARTICLE	IF	CITATIONS
361	Block circulant matrices and applications in free vibration analysis of cyclically repetitive structures. <i>Acta Mechanica</i> , 2011, 217, 51-62.	1.1	43
362	Analysis of space truss towers using combined symmetry groups and product graphs. <i>Acta Mechanica</i> , 2011, 218, 133-160.	1.1	11
363	A general model for meta-heuristic algorithms using the concept of fields of forces. <i>Acta Mechanica</i> , 2011, 221, 99-118.	1.1	8
364	Laplacian matrices of product graphs: applications in structural mechanics. <i>Acta Mechanica</i> , 2011, 222, 331-350.	1.1	7
365	Geometry and topology optimization of geodesic domes using charged system search. <i>Structural and Multidisciplinary Optimization</i> , 2011, 43, 215-229.	1.7	55
366	An enhanced charged system search for configuration optimization using the concept of fields of forces. <i>Structural and Multidisciplinary Optimization</i> , 2011, 43, 339-351.	1.7	59
367	A unified approach to parameter selection in meta-heuristic algorithms for layout optimization. <i>Journal of Constructional Steel Research</i> , 2011, 67, 1453-1462.	1.7	20
368	Cost Optimization of Reinforced Concrete One-Way Ribbed Slabs Using Harmony Search Algorithm. <i>Arabian Journal for Science and Engineering</i> , 2011, 36, 1179-1187.	1.1	12
369	Efficient free vibration analysis of rotationally symmetric shell structures. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2011, 27, 541-552.	1.0	3
370	Free vibration of symmetric planar frames via the force method and canonical forms. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2011, 27, 936-961.	1.0	0
371	Approximate eigensolution of locally modified regular structures using a substructuring technique. <i>Computers and Structures</i> , 2011, 89, 529-537.	2.4	26
372	Structural variation theorems extended to integrated force method for the analysis of skeletal structures. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2010, 26, 1050-1063.	1.0	0
373	Optimal Design of Single Layer Domes Using Meta-Heuristic Algorithms; a Comparative Study. <i>International Journal of Space Structures</i> , 2010, 25, 217-227.	0.3	17
374	Suboptimal cycle bases of graphs using ant colony system algorithm. <i>Engineering Computations</i> , 2010, 27, 485-494.	0.7	3
375	Eigenfrequencies of symmetric planar trusses via weighted graph symmetry and new canonical forms. <i>Engineering Computations</i> , 2010, 27, 409-439.	0.7	3
376	Optimal design of skeletal structures via the charged system search algorithm. <i>Structural and Multidisciplinary Optimization</i> , 2010, 41, 893-911.	1.7	192
377	An improved ant colony optimization for the design of planar steel frames. <i>Engineering Structures</i> , 2010, 32, 864-873.	2.6	100
378	Optimal design of Schwedler and ribbed domes via hybrid Big Bang-“Big Crunch algorithm. <i>Journal of Constructional Steel Research</i> , 2010, 66, 412-419.	1.7	89

#	ARTICLE	IF	CITATIONS
379	A new four-node quadrilateral plate bending element for highly sparse and banded flexibility matrices. Acta Mechanica, 2010, 209, 295-309.	1.1	5
380	Improved group theoretic method using graph products for the analysis of symmetric-regular structures. Acta Mechanica, 2010, 210, 265-289.	1.1	22
381	A novel heuristic optimization method: charged system search. Acta Mechanica, 2010, 213, 267-289.	1.1	1,063
382	Eigensolution of augmented graph products using shifted inverse iteration method. International Journal for Numerical Methods in Engineering, 2010, 83, 558-574.	1.5	7
383	An efficient analysis of repetitive structures generated by graph products. International Journal for Numerical Methods in Engineering, 2010, 84, 108-126.	1.5	33
384	Eigensolution of rotationally repetitive space structures using a canonical form. International Journal for Numerical Methods in Biomedical Engineering, 2010, 26, 1781-1796.	1.0	15
385	Eigenvalues of the adjacency and Laplacian matrices for modified regular structural models. International Journal for Numerical Methods in Biomedical Engineering, 2010, 26, 1836-1855.	1.0	9
386	Charged system search for optimum grillage system design using the LRFD-AISC code. Journal of Constructional Steel Research, 2010, 66, 767-771.	1.7	59
387	Cost optimization of a composite floor system using an improved harmony search algorithm. Journal of Constructional Steel Research, 2010, 66, 664-669.	1.7	65
388	Efficient buckling and free vibration analysis of cyclically repeated space truss structures. Finite Elements in Analysis and Design, 2010, 46, 943-948.	1.7	35
389	Improved group-theoretical method for eigenvalue problems of special symmetric structures, using graph theory. Advances in Engineering Software, 2010, 41, 22-31.	1.8	31
390	Vibration analysis of regular structures by graph products: Cable networks. Computers and Structures, 2010, 88, 588-601.	2.4	23
391	Optimum design of skeletal structures using imperialist competitive algorithm. Computers and Structures, 2010, 88, 1220-1229.	2.4	240
392	Performance-based seismic design of steel frames using ant colony optimization. Journal of Constructional Steel Research, 2010, 66, 566-574.	1.7	97
393	An improved ant colony optimization for constrained engineering design problems. Engineering Computations, 2010, 27, 155-182.	0.7	275
394	Graph products with specified domains for configuration processing and formation of the adjacency matrices. Engineering Computations, 2010, 27, 205-224.	0.7	4
395	Hybrid Algorithm of Harmony Search, Particle Swarm and Ant Colony for Structural Design Optimization. Studies in Computational Intelligence, 2009, , 159-198.	0.7	47
396	Nodal ordering for bandwidth reduction using ant system algorithm. Engineering Computations, 2009, 26, 313-323.	0.7	23

#	ARTICLE	IF	CITATIONS
397	Efficient graph-theoretical force method for two-dimensional rectangular finite element analysis. Communications in Numerical Methods in Engineering, 2009, 25, 951-971.	1.3	6
398	Combinatorial optimization of special graphs for nodal ordering and graph partitioning. Acta Mechanica, 2009, 207, 95-108.	1.1	8
399	A general theorem for adjacency matrices of graph products and application in graph partitioning for parallel computing. Finite Elements in Analysis and Design, 2009, 45, 149-155.	1.7	8
400	New graph products of specified domains for configuration processing. Proceedings in Applied Mathematics and Mechanics, 2009, 9, 585-586.	0.2	0
401	Factorization of product graphs for partitioning and domain decomposition. Finite Elements in Analysis and Design, 2009, 45, 476-483.	1.7	2
402	A particle swarm ant colony optimization for truss structures with discrete variables. Journal of Constructional Steel Research, 2009, 65, 1558-1568.	1.7	204
403	Particle swarm optimizer, ant colony strategy and harmony search scheme hybridized for optimization of truss structures. Computers and Structures, 2009, 87, 267-283.	2.4	407
404	Size optimization of space trusses using Big Bang-Big Crunch algorithm. Computers and Structures, 2009, 87, 1129-1140.	2.4	317
405	Efficient force method for the analysis of finite element models comprising of triangular elements using ant colony optimization. Finite Elements in Analysis and Design, 2009, 45, 710-720.	1.7	4
406	Nondominated Archiving Multicolony Ant Algorithm in Time-Cost Trade-Off Optimization. Journal of Construction Engineering and Management - ASCE, 2009, 135, 668-674.	2.0	65
407	Weighted Graph Products for Configuration Processing of Planar and Space Structures. International Journal of Space Structures, 2009, 24, 13-26.	0.3	6
408	Eigensolution of Laplacian matrices for graph partitioning and domain decomposition. Engineering Computations, 2009, 26, 828-842.	0.7	3
409	Eigensolution of Symmetric Space Frames by Factorization of Their Graph Models. Advances in Structural Engineering, 2009, 12, 139-167.	1.2	3
410	Forced vibration of symmetric structures. Communications in Numerical Methods in Engineering, 2008, 24, 1393-1406.	1.3	4
411	An efficient graph-theoretical force method for three-dimensional finite element analysis. Communications in Numerical Methods in Engineering, 2008, 24, 1533-1551.	1.3	15
412	Group-theoretic method for forced vibration analysis of symmetric structures. Acta Mechanica, 2008, 199, 1-16.	1.1	6
413	Stability analysis of hyper symmetric skeletal structures using group theory. Acta Mechanica, 2008, 200, 177-197.	1.1	24
414	Localized identification of shear building with embedded foundation in frequency domain. Structural Design of Tall and Special Buildings, 2008, 17, 245-256.	0.9	0



#	ARTICLE	IF	CITATIONS
415	Dynamic selective pressure using hybrid evolutionary and ant system strategies for structural optimization. International Journal for Numerical Methods in Engineering, 2008, 73, 544-563.	1.5	14
416	Factorization for efficient solution of eigenproblems of adjacency and Laplacian matrices for graph products. International Journal for Numerical Methods in Engineering, 2008, 75, 58-82.	1.5	21
417	Minimal cycle bases for analysis of frames with semi-rigid joints. Computers and Structures, 2008, 86, 503-510.	2.4	5
418	Graph products for configuration processing of space structures. Computers and Structures, 2008, 86, 1219-1231.	2.4	40
419	Plastic limit analysis of frames using ant colony systems. Computers and Structures, 2008, 86, 1152-1163.	2.4	23
420	Structural topology optimization using ant colony methodology. Engineering Structures, 2008, 30, 2559-2565.	2.6	122
421	Optimal priority functions for profile reduction using ant colony optimization. Finite Elements in Analysis and Design, 2008, 44, 131-138.	1.7	19
422	Optimal domain decomposition via $\alpha$ -median methodology using ACO and hybrid ACGA. Finite Elements in Analysis and Design, 2008, 44, 505-512.	1.7	14
423	Efficient finite element analysis by graph-theoretical force method; triangular and rectangular plate bending elements. Finite Elements in Analysis and Design, 2008, 44, 646-654.	1.7	14
424	Ant Colony Optimization for Design of Space Trusses. International Journal of Space Structures, 2008, 23, 167-181.	0.3	87
425	Sizing, geometry and topology optimization of trusses via force method and genetic algorithm. Engineering Structures, 2008, 30, 2360-2369.	2.6	147
426	Optimal Design of Transmission Towers Using Genetic Algorithm and Neural Networks. International Journal of Space Structures, 2008, 23, 1-19.	0.3	153
427	Ant colony optimization for finding medians of weighted graphs. Engineering Computations, 2008, 25, 102-120.	0.7	14
428	Optimal structural design family by genetic search and ant colony approach. Engineering Computations, 2008, 25, 268-288.	0.7	19
429	Graph theoretical implementation of memetic algorithms in structural optimization of frame bracing layouts. Engineering Computations, 2008, 25, 55-85.	0.7	7
430	A hybrid ant strategy and genetic algorithm to tune the population size for efficient structural optimization. Engineering Computations, 2007, 24, 237-254.	0.7	17
431	Interrelation of the structural variation theorems and the force method. Engineering Computations, 2007, 24, 763-779.	0.7	2
432	An efficient graph theoretical method for plate bending finite element analysis via force method. Engineering Computations, 2007, 24, 679-698.	0.7	5

#	ARTICLE	IF	CITATIONS
433	A novel nodal ordering algorithm for profile optimization by efficient solution of a differential equation. <i>Engineering Computations</i> , 2007, 24, 572-585.	0.7	3
434	Block diagonalization of Laplacian matrices of symmetric graphs via group theory. <i>International Journal for Numerical Methods in Engineering</i> , 2007, 69, 908-947.	1.5	23
435	Eigensolution for free vibration of planar frames by weighted graph symmetry. <i>International Journal for Numerical Methods in Engineering</i> , 2007, 69, 1305-1330.	1.5	8
436	Optimal design of skeletal structures using ant colony optimization. <i>International Journal for Numerical Methods in Engineering</i> , 2007, 70, 563-581.	1.5	66
437	Topology and graph products; eigenproblems in optimal structural analysis. <i>Communications in Numerical Methods in Engineering</i> , 2007, 24, 929-945.	1.3	12
438	Analysis of frames by substructuring technique based on using algebraic and graph methods. <i>Communications in Numerical Methods in Engineering</i> , 2007, 24, 867-874.	1.3	6
439	Minimal cycle basis of graph products for the force method of frame analysis. <i>Communications in Numerical Methods in Engineering</i> , 2007, 24, 653-669.	1.3	7
440	Buckling load of symmetric plane frames using canonical forms. <i>Computers and Structures</i> , 2007, 85, 1420-1430.	2.4	17
441	Buckling load of planar frames with semi-rigid joints using weighted symmetric graphs. <i>Computers and Structures</i> , 2007, 85, 1704-1728.	2.4	4
442	Efficient finite element analysis by graph-theoretical force method. <i>Finite Elements in Analysis and Design</i> , 2007, 43, 543-554.	1.7	12
443	Eigenfrequencies of symmetric planar frames with semi-rigid joints using weighted graphs. <i>Finite Elements in Analysis and Design</i> , 2007, 43, 1135-1154.	1.7	0
444	Eigensolution for Stability Analysis of Planar Frames by Graph Symmetry. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2007, 22, 367-375.	6.3	5
445	Optimal Design of Scissor-Link Foldable Structures Using Ant Colony Optimization Algorithm. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2007, 22, 56-64.	6.3	37
446	Compound matrix block diagonalization for efficient solution of eigenproblems in structural mechanics. <i>Acta Mechanica</i> , 2007, 188, 155-166.	1.1	31
447	Online detection of the breathing crack using an adaptive tracking technique. <i>Acta Mechanica</i> , 2007, 188, 139-154.	1.1	10
448	Graph coloration and group theory for factorization of symmetric dynamic systems. <i>Acta Mechanica</i> , 2007, 192, 111-133.	1.1	3
449	Tri-diagonal and penta-diagonal block matrices for efficient eigensolutions of problems in structural mechanics. <i>Acta Mechanica</i> , 2007, 192, 77-87.	1.1	17
450	Graph coloration and group theory in dynamic analysis of symmetric finite element models. <i>Finite Elements in Analysis and Design</i> , 2007, 43, 901-911.	1.7	9

#	ARTICLE	IF	CITATIONS
451	Nonlinear analysis and optimal design of structures via force method and genetic algorithm. Computers and Structures, 2006, 84, 770-778.	2.4	39
452	Analysis of frames with semi-rigid joints: A graph-theoretical approach. Engineering Structures, 2006, 28, 829-836.	2.6	9
453	Buckling load of symmetric plane frames using canonical forms and group theory. Acta Mechanica, 2006, 185, 89-128.	1.1	16
454	Augmented canonical forms and factorization of graphs. International Journal for Numerical Methods in Engineering, 2006, 65, 1545-1569.	1.5	5
455	Analysis, design and optimization of structures using force method and genetic algorithm. International Journal for Numerical Methods in Engineering, 2006, 65, 1570-1584.	1.5	37
456	Eigensolution of specially structured matrices with hyper-symmetry. International Journal for Numerical Methods in Engineering, 2006, 67, 1012-1043.	1.5	6
457	Block diagonalization of adjacency and Laplacian matrices for graph product; applications in structural mechanics. International Journal for Numerical Methods in Engineering, 2006, 68, 33-63.	1.5	51
458	Special decompositions for eigenproblems in structural mechanics. Communications in Numerical Methods in Engineering, 2006, 22, 943-953.	1.3	3
459	Decomposition of symmetric mass-spring vibrating systems using groups, graphs and linear algebra. Communications in Numerical Methods in Engineering, 2006, 23, 639-664.	1.3	23
460	A comparative study of algorithms for minimal cycle bases for efficient force method of frame analysis. Communications in Numerical Methods in Engineering, 2006, 23, 921-943.	1.3	3
461	Analysis of symmetric structures using canonical forms. Communications in Numerical Methods in Engineering, 2006, 24, 195-218.	1.3	2
462	Simultaneous topology and size optimization of structures by genetic algorithm using minimal length chromosome. Engineering Computations, 2006, 23, 644-674.	0.7	14
463	Eigenvalues of factorable matrices with form IV symmetry. Communications in Numerical Methods in Engineering, 2005, 21, 269-287.	1.3	19
464	A unified method for eigendecomposition of graph products. Communications in Numerical Methods in Engineering, 2005, 21, 377-388.	1.3	21
465	New canonical forms for analytical solution of problems in structural mechanics. Communications in Numerical Methods in Engineering, 2005, 21, 499-513.	1.3	13
466	Subminimal cycle basis of a graph for efficient force method of frame analysis. Communications in Numerical Methods in Engineering, 2005, 21, 619-629.	1.3	0
467	Additivity properties of graphs with Form II symmetry. Communications in Numerical Methods in Engineering, 2005, 22, 181-195.	1.3	3
468	Bisection for parallel computing using Ritz and Fiedler vectors. Acta Mechanica, 2004, 167, 131-144.	1.1	6

#	ARTICLE	IF	CITATIONS
469	Nodal ordering using graph theory and a genetic algorithm. <i>Finite Elements in Analysis and Design</i> , 2004, 40, 1271-1280.	1.7	4
470	Graph symmetry and dynamic systems. <i>Computers and Structures</i> , 2004, 82, 2229-2240.	2.4	34
471	Size/geometry optimization of trusses by the force method and genetic algorithm. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2004, 84, 347-357.	0.9	48
472	Eigensolution of symmetric frames using graph factorization. <i>Communications in Numerical Methods in Engineering</i> , 2004, 20, 889-910.	1.3	37
473	Collapse load factor of planar frames using a modified genetic algorithm. <i>Communications in Numerical Methods in Engineering</i> , 2004, 20, 911-925.	1.3	15
474	Wavefront reduction using graphs, neural networks and genetic algorithm. <i>International Journal for Numerical Methods in Engineering</i> , 2004, 60, 1803-1815.	1.5	29
475	An efficient method for decomposition of regular structures using graph products. <i>International Journal for Numerical Methods in Engineering</i> , 2004, 61, 1797-1808.	1.5	50
476	Design of frames using genetic algorithm, force method and graph theory. <i>International Journal for Numerical Methods in Engineering</i> , 2004, 61, 2555-2565.	1.5	10
477	A new spectral method for nodal ordering of regular space structures. <i>Finite Elements in Analysis and Design</i> , 2004, 40, 1931-1945.	1.7	18
478	Algebraic Graph Theory for Sparse Flexibility Matrices. <i>Mathematical Modelling and Algorithms</i> , 2003, 2, 171-182.	0.5	2
479	Eigensolutions for factorable matrices of special patterns. <i>Communications in Numerical Methods in Engineering</i> , 2003, 20, 133-146.	1.3	31
480	Topology optimization of trusses using genetic algorithm, force method and graph theory. <i>International Journal for Numerical Methods in Engineering</i> , 2003, 58, 771-791.	1.5	83
481	A hybrid graph-genetic method for domain decomposition. <i>Finite Elements in Analysis and Design</i> , 2003, 39, 1237-1247.	1.7	9
482	Suboptimal cycle bases for the force method. <i>Engineering Computations</i> , 2003, 20, 58-66.	0.7	3
483	Neural Networks for the Analysis and Design of Domes. <i>International Journal of Space Structures</i> , 2003, 18, 181-193.	0.3	15
484	Neural Networks for the Approximate Analysis and Design of Double Layer Grids. <i>International Journal of Space Structures</i> , 2002, 17, 77-89.	0.3	7
485	Genetic algorithm for discrete-sizing optimal design of trusses using the force method. <i>International Journal for Numerical Methods in Engineering</i> , 2002, 55, 55-72.	1.5	55
486	Eigensolutions for matrices of special structures. <i>Communications in Numerical Methods in Engineering</i> , 2002, 19, 125-136.	1.3	41

#	ARTICLE	IF	CITATIONS
487	A multi-level finite element nodal ordering using algebraic graph theory. <i>Finite Elements in Analysis and Design</i> , 2002, 38, 245-261.	1.7	21
488	A hybrid method for finite element ordering. <i>Computers and Structures</i> , 2002, 80, 219-225.	2.4	5
489	An Efficient Algorithm for Embedding Nonplanar Graphs in Planes. <i>Mathematical Modelling and Algorithms</i> , 2002, 1, 257-268.	0.5	1
490	Spectral trisection of finite element models. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2001, 11, 358-370.	1.6	14
491	Design of double layer grids using backpropagation neural networks. <i>Computers and Structures</i> , 2001, 79, 1561-1568.	2.4	119
492	Topological aspects of meshless methods and nodal ordering for meshless discretizations. <i>International Journal for Numerical Methods in Engineering</i> , 2001, 52, 921-938.	1.5	6
493	Finite element mesh decomposition using complementary Laplacian matrix. <i>Communications in Numerical Methods in Engineering</i> , 2000, 16, 379-389.	1.3	19
494	Ordering for wavefront optimization. <i>Computers and Structures</i> , 2000, 78, 227-235.	2.4	7
495	Optimal Design of Pantograph Foldable Structures. <i>International Journal of Space Structures</i> , 1999, 14, 295-302.	0.3	7
496	Optimal Design of Pantograph Foldable Structures. <i>International Journal of Space Structures</i> , 1999, 14, 295-302.	0.3	7
497	Bandwidth optimization for rectangular matrices. <i>Computers and Structures</i> , 1999, 73, 497-509.	2.4	2
498	Optimal plastic analysis and design of frames: graph theoretical methods. <i>Computers and Structures</i> , 1999, 73, 485-496.	2.4	6
499	Cycle bases of graphs for sparse flexibility matrices. <i>Computers and Structures</i> , 1999, 73, 511-517.	2.4	1
500	An algorithm for partitioning of finite element meshes. <i>Advances in Engineering Software</i> , 1999, 30, 857-865.	1.8	8
501	Spectral bisection of adaptive finite element meshes for parallel processing. <i>Computers and Structures</i> , 1999, 70, 315-323.	2.4	26
502	Structural optimization by gradient-based neural networks. <i>International Journal for Numerical Methods in Engineering</i> , 1999, 46, 297-311.	1.5	44
503	Comparative study of finite element nodal ordering methods. <i>Engineering Structures</i> , 1998, 20, 86-96.	2.6	24
504	Comparative Study of Backpropagation and Improved Counterpropagation Neural Nets in Structural Analysis and Optimization. <i>International Journal of Space Structures</i> , 1998, 13, 177-185.	0.3	122

#	ARTICLE	IF	CITATIONS
505	Conditioning of structural stiffness matrices. Computers and Structures, 1997, 63, 719-725.	2.4	4
506	Topological transformations applied to structural mechanics. Computers and Structures, 1997, 63, 709-718.	2.4	5
507	A comparative study of combinatorial and algebraic force methods. Computers and Structures, 1997, 63, 727-737.	2.4	5
508	Analysis of pantograph foldable structures. Computers and Structures, 1996, 59, 131-140.	2.4	30
509	Finite element nodal ordering algorithms. Communications in Numerical Methods in Engineering, 1995, 11, 995-1003.	1.3	5
510	Improved cycle bases of a graph for the force method of frame analysis. Computers and Structures, 1995, 54, 557-559.	2.4	1
511	Revised Greedy algorithm for formation of a minimal cycle basis of a graph. Communications in Numerical Methods in Engineering, 1994, 10, 523-530.	1.3	8
512	Bandwidth reduction of rectangular matrices. Communications in Numerical Methods in Engineering, 1993, 9, 259-267.	1.3	8
513	Matroids in structural mechanics. Computers and Structures, 1993, 47, 169-174.	2.4	2
514	A graph-theoretical approach to configuration processing. Computers and Structures, 1993, 48, 357-363.	2.4	10
515	Space Structures and the Crossing Number of Their Graphs*. Mechanics Based Design of Structures and Machines, 1993, 21, 151-166.	0.6	3
516	20. Space structures and their topographical invariants. , 1993, , 1: 186-194.		0
517	Recent Developments in the Force Method of Structural Analysis. Applied Mechanics Reviews, 1992, 45, 401-418.	4.5	41
518	Optimizing the conditioning of structural flexibility matrices. Computers and Structures, 1991, 41, 489-494.	2.4	11
519	A connectivity coordinate system for node and element ordering. Computers and Structures, 1991, 41, 1217-1223.	2.4	16
520	Graphs and structures. Computers and Structures, 1991, 40, 893-901.	2.4	26
521	On optimal cycle bases of graphs for mesh analysis of networks. Networks, 1989, 19, 273-279.	1.6	4
522	Suboptimal cycle bases of graphs for the flexibility analysis of skeletal structures. Computer Methods in Applied Mechanics and Engineering, 1988, 71, 259-271.	3.4	15

#	ARTICLE	IF	CITATIONS
523	Topology and Skeletal Structures. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 1988, 68, 347-353.	0.9	3
524	On subminimal cycle bases of a graph for the force method. Computers and Structures, 1988, 30, 1215-1217.	2.4	2
525	A set theoretical approach for configuration processing. Computers and Structures, 1988, 30, 1293-1302.	2.4	14
526	Topological properties of skeletal structures. Computers and Structures, 1988, 29, 403-411.	2.4	16
527	Subminimal cycle bases for the force method of structural analysis. Communications in Applied Numerical Methods, 1987, 3, 277-280.	0.5	8
528	Multiple use of a shortest route tree for ordering. Communications in Applied Numerical Methods, 1986, 2, 213-215.	0.5	15
529	An efficient program for generating subminimal cycle bases for the flexibility analysis of structures. Communications in Applied Numerical Methods, 1986, 2, 339-344.	0.5	31
530	Graph theoretical methods for efficient flexibility analysis of planar trusses. Computers and Structures, 1986, 23, 559-564.	2.4	8
531	An efficient flexibility analysis of structures. Computers and Structures, 1986, 22, 973-977.	2.4	22
532	Ordering for bandwidth reduction. Computers and Structures, 1986, 24, 413-420.	2.4	34
533	A combinatorial study of the rigidity of planar structures. Acta Mechanica, 1986, 62, 189-196.	1.1	5
534	Statical Bases for an Efficient Flexibility Analysis of Planar Trusses*. Journal of Structural Mechanics, 1986, 14, 475-488.	0.7	10
535	A note on a two-step approach to finite element ordering™. International Journal for Numerical Methods in Engineering, 1984, 20, 1553-1554.	1.5	7
536	A combinatorial optimization problem; optimal generalized cycle bases. Computer Methods in Applied Mechanics and Engineering, 1979, 20, 39-51.	3.4	46
537	Improved cycle bases for the flexibility analysis of structures. Computer Methods in Applied Mechanics and Engineering, 1976, 9, 267-272.	3.4	54
538	Cycle bases for the flexibility analysis of structures. International Journal for Numerical Methods in Engineering, 1974, 8, 521-528.	1.5	36
539	M5 <sup>1</sup> and Mars Based Prediction Models for Properties of Self-compacting Concrete Containing Fly Ash. Periodica Polytechnica: Civil Engineering, 0, , .	0.6	18
540	Locating Emergency Facilities Using the Weighted k-median Problem: A Graph-metaheuristic Approach. Periodica Polytechnica: Civil Engineering, 0, , .	0.6	1

#	ARTICLE	IF	CITATIONS
541	Optimal Design of Steel-Concrete Composite I-girder Bridges Using Three Meta-Heuristic Algorithms. Periodica Polytechnica: Civil Engineering, 0, , .	0.6	4
542	Optimal Design of Multi-Span Pitched Roof Frames with Tapered Members. Periodica Polytechnica: Civil Engineering, 0, , .	0.6	8
543	Charged System Search and Magnetic Charged System Search Algorithms for Construction Site Layout Planning Optimization. Periodica Polytechnica: Civil Engineering, 0, , .	0.6	4
544	Optimization of Tower Crane Location and Material Quantity Between Supply and Demand Points: A Comparative Study. Periodica Polytechnica: Civil Engineering, 0, , .	0.6	9
545	Matrix Analysis of Repetitive Circulant Structures: New-block and Near Block Matrices. Periodica Polytechnica: Civil Engineering, 0, , .	0.6	2
546	The Hybrid Invasive Weed Optimization-Shuffled Frog-leaping Algorithm Applied to Optimal Design of Frame Structures. Periodica Polytechnica: Civil Engineering, 0, , .	0.6	11
547	Ground Motion Record Selection using Multi-objective Optimization Algorithms: A Comparative Study. Periodica Polytechnica: Civil Engineering, 0, , .	0.6	11
548	Optimal Design of Steel Curved Roof Frames by Enhanced Vibrating Particles System Algorithm. Periodica Polytechnica: Civil Engineering, 0, , .	0.6	1
549	Enhanced Artificial Coronary Circulation System Algorithm for Truss Optimization with Multiple Natural Frequency Constraints. Periodica Polytechnica: Civil Engineering, 0, , .	0.6	3
550	Optimal Design of Pitched Roof Rigid Frames with Non-Prismatic Members Using Quantum Evolutionary Algorithm. Periodica Polytechnica: Civil Engineering, 0, , .	0.6	4
551	Dynamic Water Strider Algorithm for Optimal Design of Skeletal Structures. Periodica Polytechnica: Civil Engineering, 0, , .	0.6	12
552	An Improved Water Strider Algorithm for Optimal Design of Skeletal Structures. Periodica Polytechnica: Civil Engineering, 0, , .	0.6	6
553	Boundary Strategy for Optimization-based Structural Damage Detection Problem using Metaheuristic Algorithms. Periodica Polytechnica: Civil Engineering, 0, , .	0.6	7
554	An Upgraded Sine Cosine Algorithm for Tower Crane Selection and Layout Problem. Periodica Polytechnica: Civil Engineering, 0, , .	0.6	3
555	Optimal Design of Reinforced Concrete Cantilever Retaining Walls Utilizing Eleven Meta-Heuristic Algorithms: A Comparative Study. Periodica Polytechnica: Civil Engineering, 0, , .	0.6	14
556	Size/Layout Optimization of Truss Structures Using Shuffled Shepherd Optimization Method. Periodica Polytechnica: Civil Engineering, 0, , .	0.6	9
557	Set Theoretical Variants of Optimization Algorithms for System Reliability-based Design of Truss Structures. Periodica Polytechnica: Civil Engineering, 0, , .	0.6	9
558	Chaotic optimization algorithm for performance-based optimization design of composite moment frames. Engineering With Computers, 0, , 1.	3.5	5



#	ARTICLE	IF	CITATIONS
559	The cost and CO2 emission optimization of reinforced concrete frames with non-prismatic members. Soft Computing, 0, , .	2.1	1